

$$G = \begin{bmatrix} 1011 \\ 1101 \end{bmatrix}$$

FIG. 1a

	18				
MESSAGE:	00	10	01	11	SYNDROME
CODE:	0000	1011	0101	1110	$\begin{pmatrix} 0 \\ 0 \end{pmatrix}$
COSET:	1000	0011	1101	0110	$\begin{pmatrix} 1 \\ 1 \end{pmatrix}$
16	COSET:	0100	1111	0001	$\begin{pmatrix} 0 \\ 1 \end{pmatrix}$
	COSET:	0010	1001	0111	$\begin{pmatrix} 1 \\ 0 \end{pmatrix}$
	COSET LEADERS				

FIG. 1b

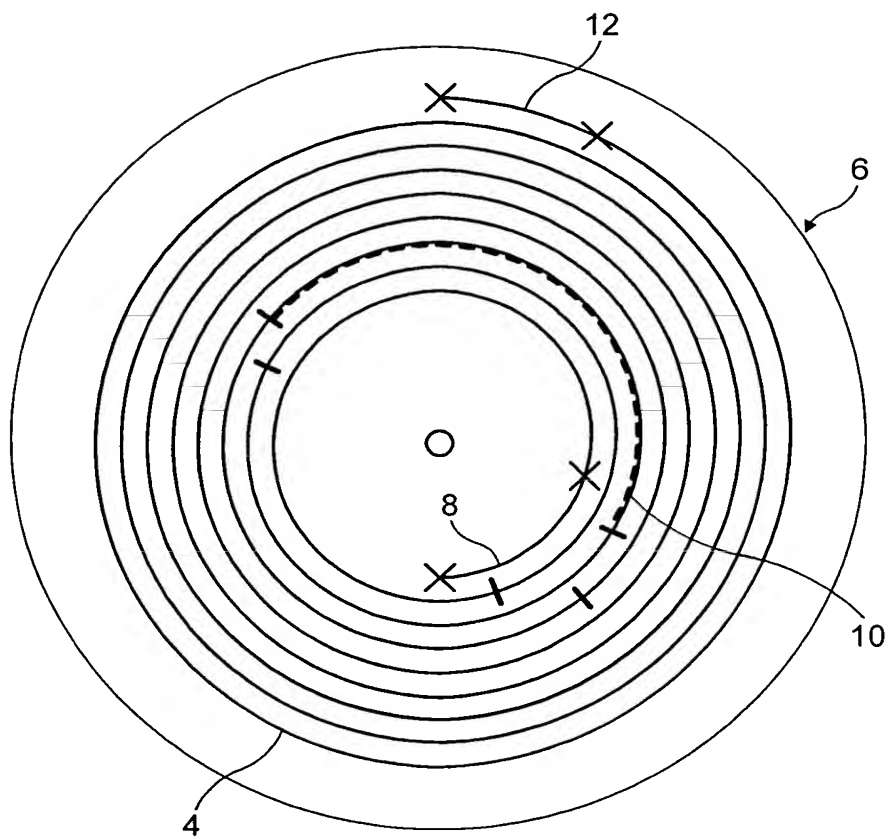


FIG. 2

Timing diagram showing the relationship between the CHANNEL and BITS signals. The CHANNEL signal is a square wave with a period of 14 units. The BITS signal is a square wave with a period of 3 units. The diagram shows the relationship between the two signals over time.

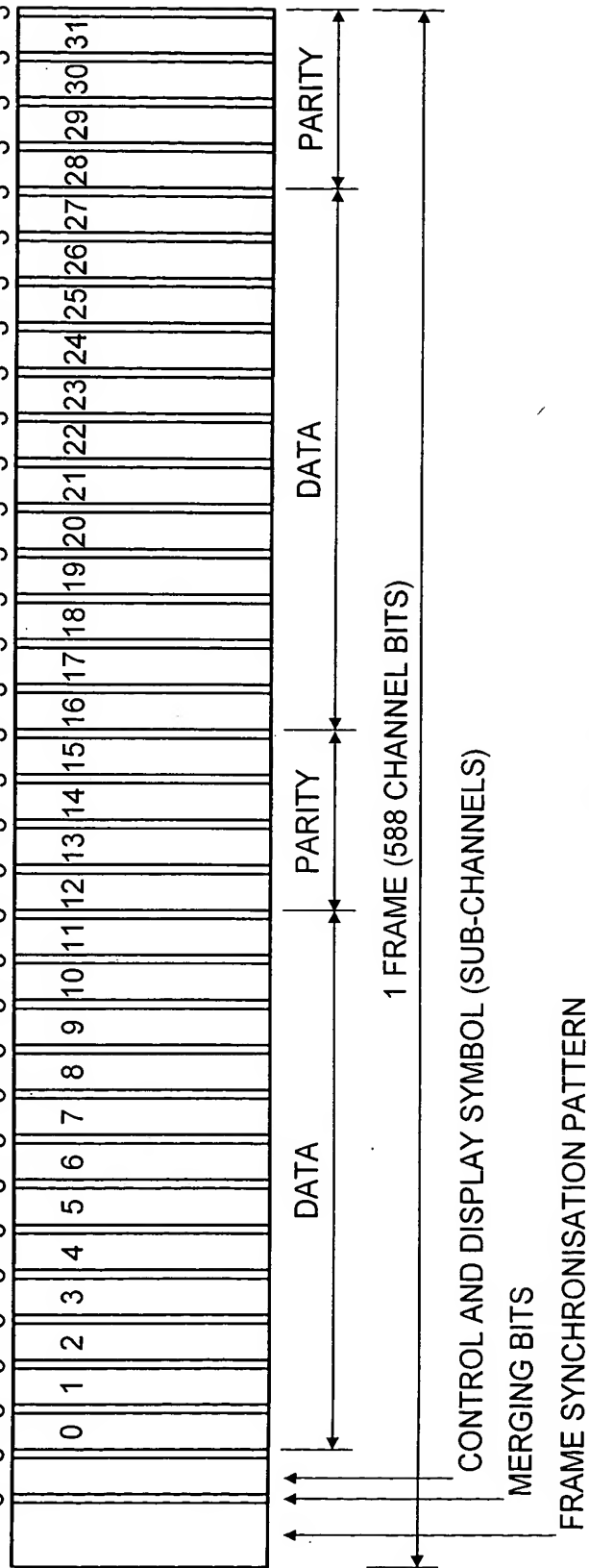


FIG. 3

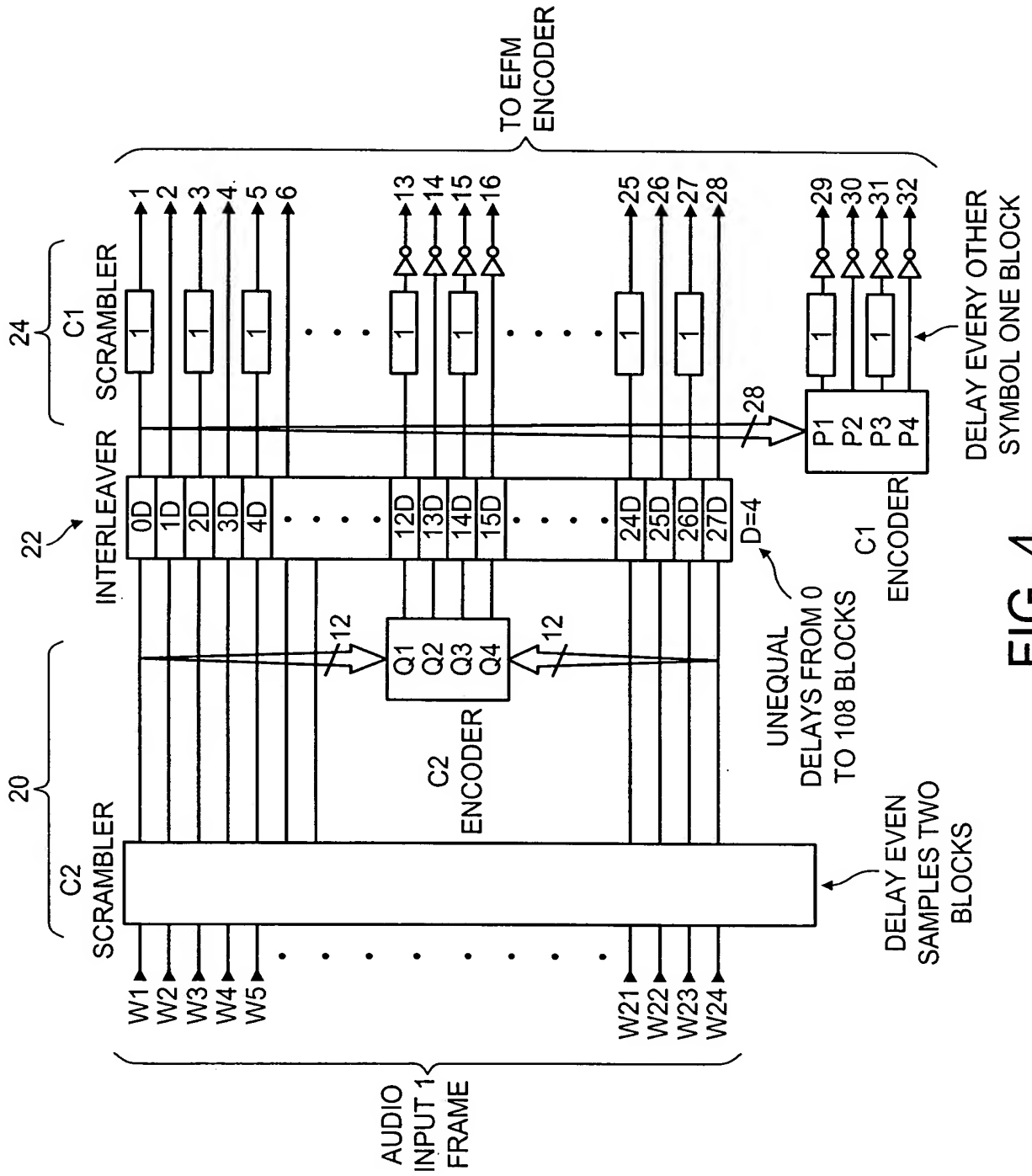


FIG. 4

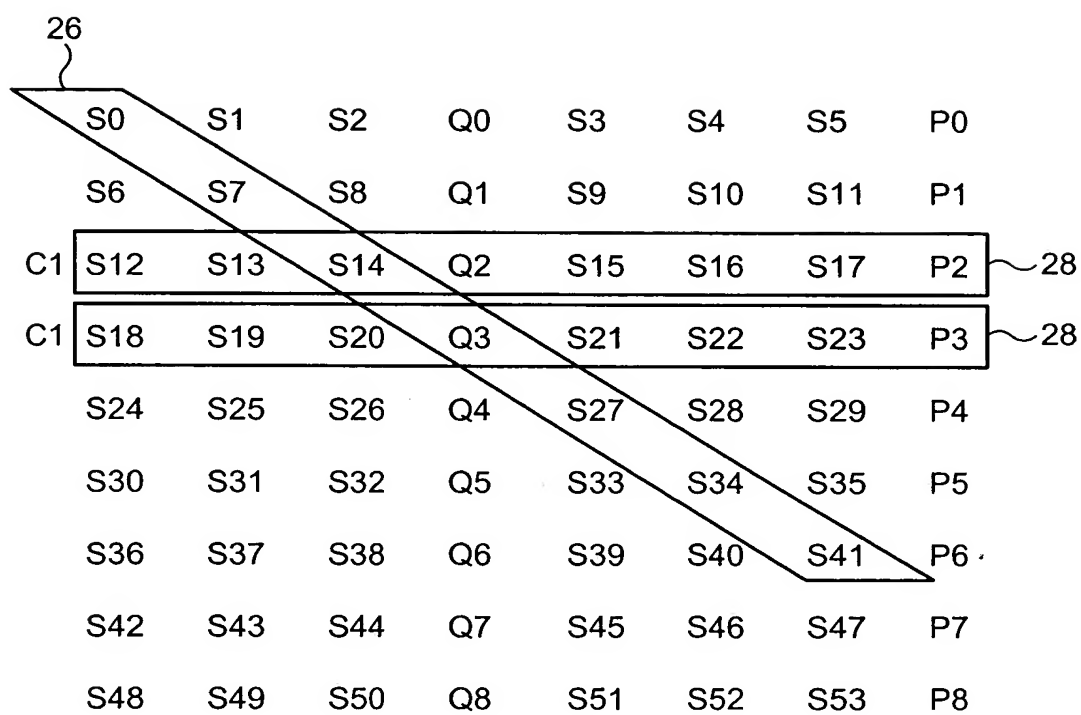


FIG. 5

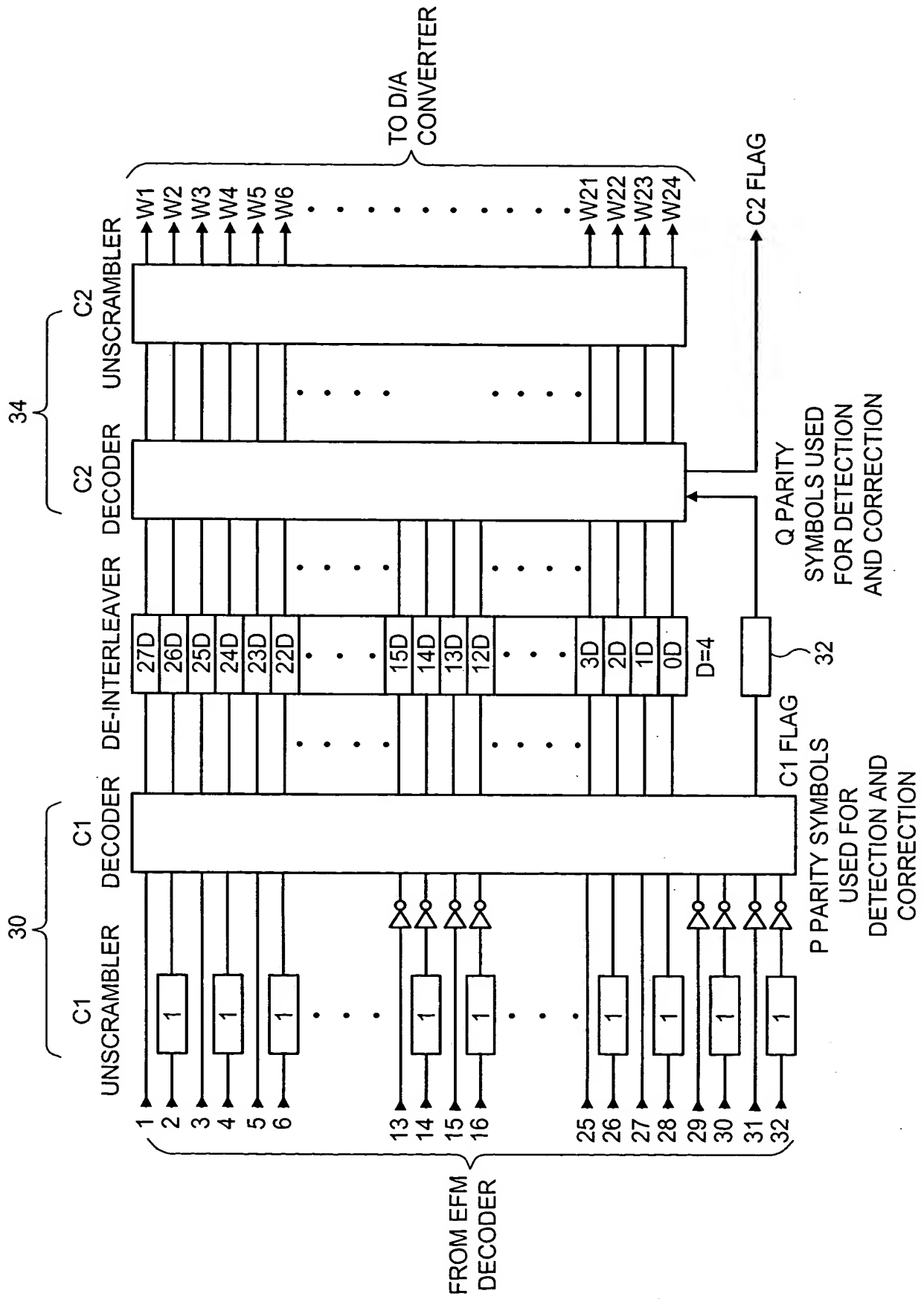
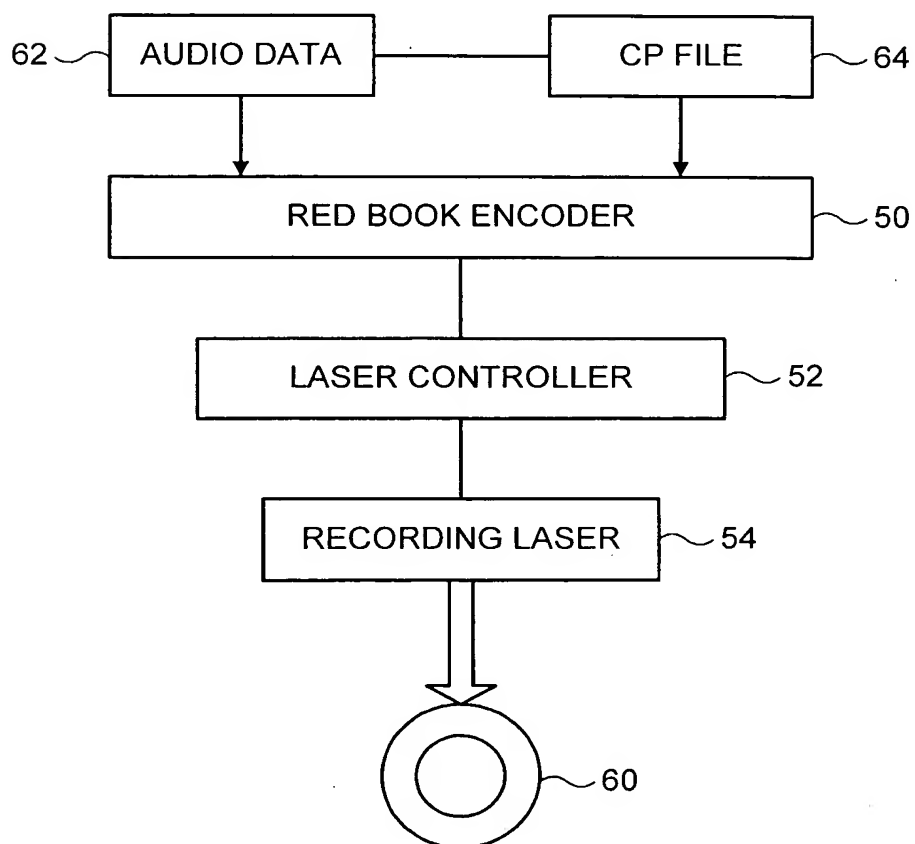
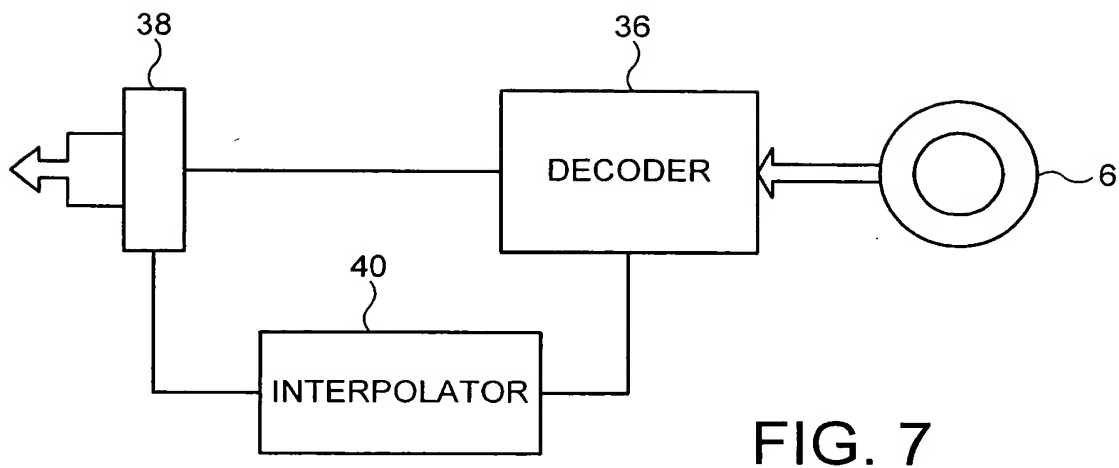


FIG. 6



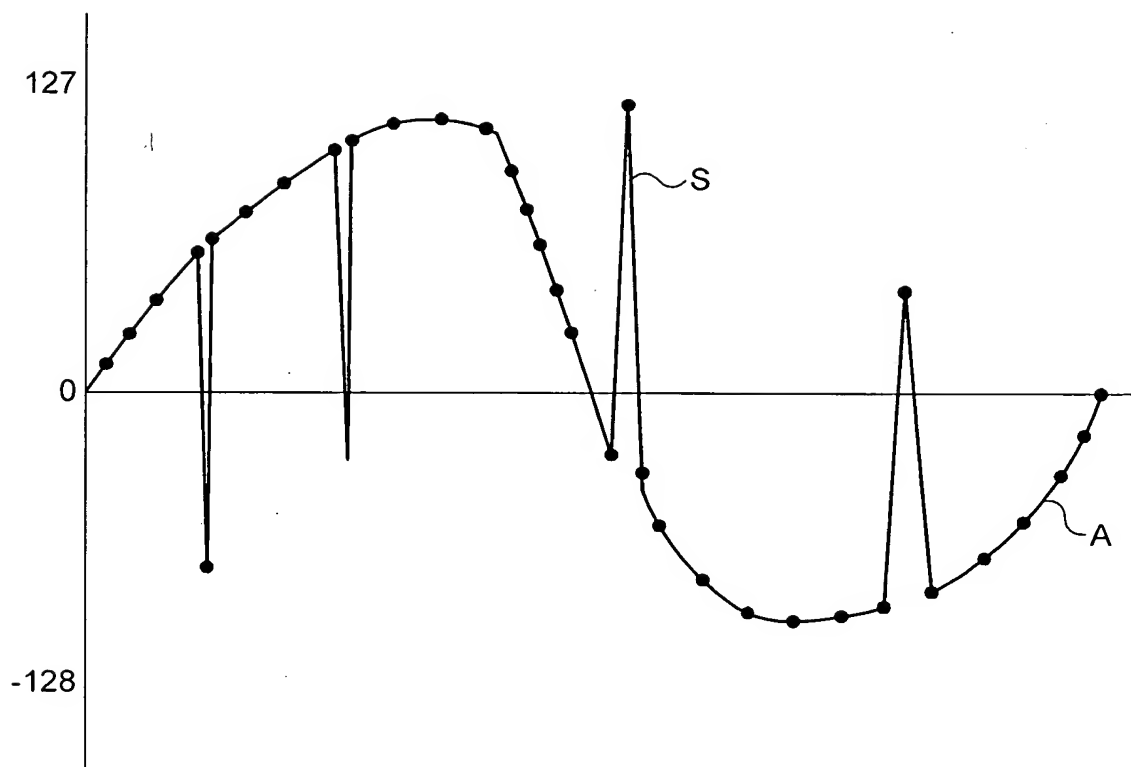


FIG. 9

127	0111 1111	0x7F
126	0111 1110	0x7E
1	0000 0001	0x01
0	0000 0000	0x00
-127	1000 0001	0x81
-128	1000 0000	0x80
a		b

FIG. 10

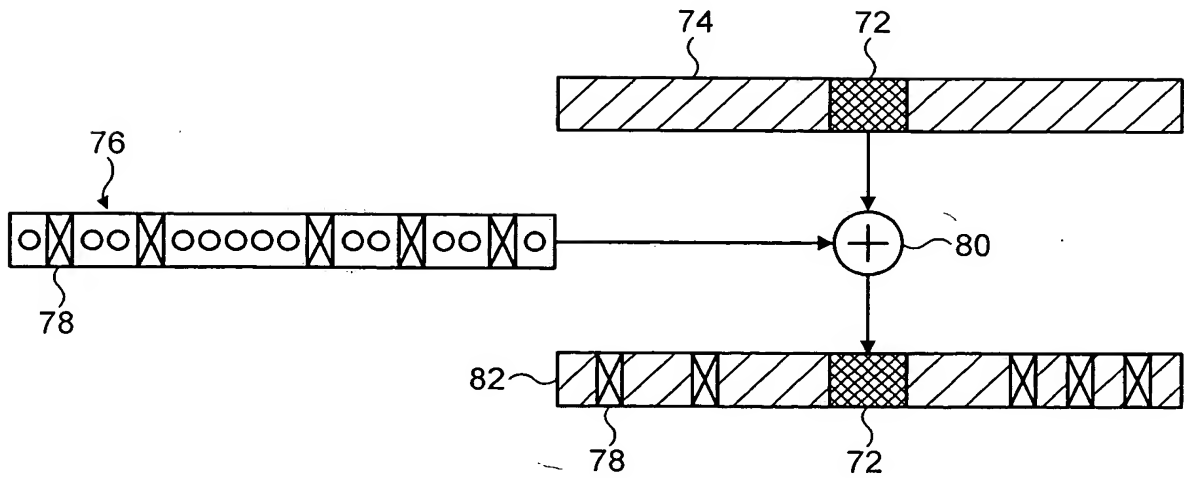


FIG. 11

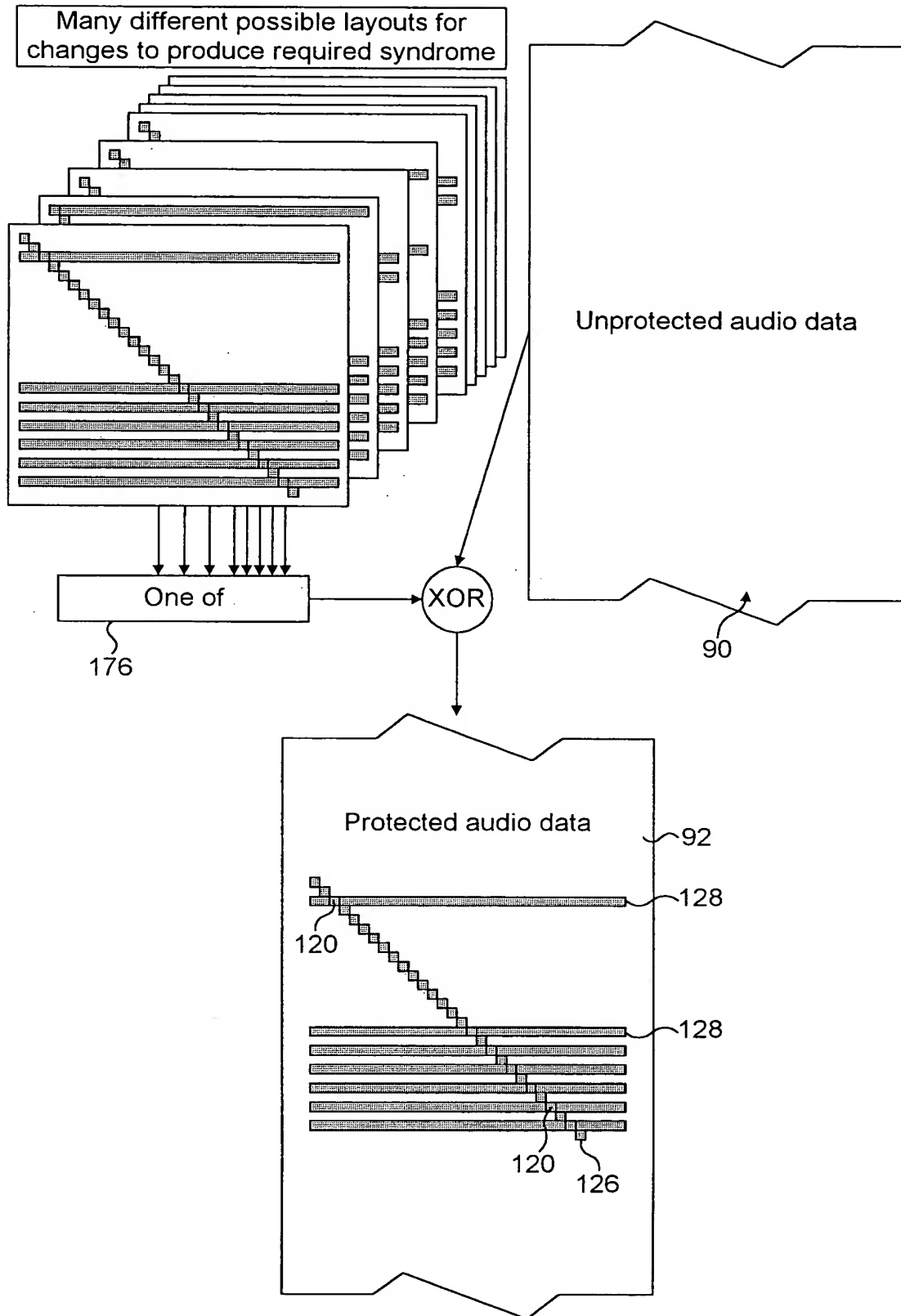


FIG. 12